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TITLE: Granulation and comminution of liquid slag, e.g. from a blast furnace or a coal-fired power station, comprises slag ejection into a cooling reactor using hot combustion gases

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PATENT-FAMILY:

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MX 2000009504 A1	December 1, 2001	N/A	000	C21B 003/06
WO 200044942 A1	August 3, 2000	G	015	C21B 003/06
EP 1068363 A1	January 17, 2001	G	000	C21B 003/06

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APPLICATION-DATA:

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MX2000009504A1	N/A	2000MX-0009504	September 28, 2000
WO 200044942A1	N/A	2000WO-AT00007	January 13, 2000
EP 1068363A1	N/A	2000EP-0900447	January 13, 2000
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EP 1068363A1 Based on

WO 200044942 N/A

INT-CL (IPC): C21B003/06

ABSTRACTED-PUB-NO: WO 200044942A

BASIC-ABSTRACT:

NOVELTY - Liquid slag granulation and comminution, comprises slag ejection into a cooling reactor using hot combustion gases.

DETAILED DESCRIPTION - A liquid slag granulation and comminution process comprises ejecting a slag stream with hot combustion gases, especially from complete combustion, into a cooling reactor where it is cooled with addition of hydrocarbons.

An INDEPENDENT CLAIM is also included for equipment for carrying out the above process, in which combustion gases from a burner (4) are directed onto the slag or exhaust gases from a combustion chamber or an internal combustion engine, especially a turbine combustion chamber, are directed onto the slag or through a tundish lance (7).

USE - For granulation and comminution of liquid slags e.g., from blast furnaces and coal-fired thermal power stations.

ADVANTAGE - The process completely eliminates the use of water or steam for slag cooling so that steam formation is avoided during combustion, allows relatively simple process control to ensure reproducible process conditions independently of the slag type and maintains a high temperature in the slag tundish to prevent slag freezing in and blockage of the outlet opening.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of equipment for carrying out the process.

Tundish 1

Burner 4

Tundish outlet 5

Cooling reactor 6

Lance 7

Hydrocarbon injection nozzles 9

CHOSEN- Dwg.1/1

DRAWING:

**TITLE- GRANULE COMMINUTE LIQUID SLAG BLAST FURNACE COAL
TERMS: FIRE POWER STATION COMPRISE SLAG EJECT COOLING
REACTOR HOT COMBUST GAS**

DERWENT-CLASS: L02 M24

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